Basant A Ali

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5727251/publications.pdf

Version: 2024-02-01

32 papers	740 citations	567281 15 h-index	552781 26 g-index
33 all docs	33 docs citations	33 times ranked	745 citing authors

#	Article	IF	Citations
1	Three-Dimensional Interconnected Binder-Free Mnâ€“Niâ€“S Nanosheets for High Performance Asymmetric Supercapacitor Devices with Exceptional Cyclic Stability. ACS Applied Energy Materials, 2019, 2, 3717-3725.	5.1	88
2	Untapped Potential of Polymorph MoS₂: Tuned Cationic Intercalation for High-Performance Symmetric Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 33955-33965.	8.0	80
3	Unveiling the Effect of the Structure of Carbon Material on the Charge Storage Mechanism in MoS₂-Based Supercapacitors. ACS Omega, 2018, 3, 16301-16308.	3.5	76
4	Recent advances in the use of TiO₂ nanotube powder in biological, environmental, and energy applications. Nanoscale Advances, 2019, 1, 2801-2816.	4.6	73
5	Recycling of Liâ^'Niâ^'Mnâ^'Co Hydroxide from Spent Batteries to Produce Highâ€Performance Supercapacitors with Exceptional Stability. ChemElectroChem, 2020, 7, 975-982.	3.4	41
6	A first-principles roadmap and limits to design efficient supercapacitor electrode materials. Physical Chemistry Chemical Physics, 2019, 21, 17494-17511.	2.8	39
7	The DFT+U: Approaches, Accuracy, and Applications. , 0, , .		37
8	Fullerene C₇₆: An Unexplored Superior Electrode Material with Wide Operating Potential Window for Highâ€Performance Supercapacitors. ChemElectroChem, 2020, 7, 1672-1678.	3.4	28
9	Propping the optical and electronic properties of potential photo-sensitizers with different Ï€-spacers: TD-DFT insights. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 188, 237-243.	3.9	27
10	Optimized electrosynthesis approach of Manganese-Nickel- Cobalt chalcogenide nanosheet arrays as binder-free battery materials for asymmetric electrochemical supercapacitors. Electrochimica Acta, 2021, 396, 139191.	5.2	24
11	Natural silk for energy and sensing applications: a review. Environmental Chemistry Letters, 2021, 19, 2141-2155.	16.2	23
12	Comparison between Benzothiadizoleâ€“Thiophene- and Benzothiadizoleâ€“Furan-Based Dâ€“Aâ^'Ï€â€“A Dyes Applied in Dye-Sensitized Solar Cells: Experimental and Theoretical Insights. ACS Omega, 2020, 5, 16856-16864.	3.5	21
13	Recent progress in the development of hole-transport materials to boost the power conversion efficiency of perovskite solar cells. Sustainable Materials and Technologies, 2020, 26, e00210.	3.3	18
14	Towards Cs-ion supercapacitors: Cs intercalation in polymorph MoS₂ as a model 2D electrode material. Chemical Communications, 2021, 57, 3231-3234.	4.1	18
15	Interplay of quantum capacitance with Van der Waals forces, intercalation, co-intercalation, and the number of MoS2 layers. Materials Today Energy, 2021, 20, 100677.	4.7	17
16	Cylindrical C₉₆ Fullertubes: A Highly Active Metalâ€Free O₂â€Reduction Electrocatalyst. Angewandte Chemie - International Edition, 2022, 61, .	13.8	17
17	Silkworms as a factory of functional wearable energy storage fabrics. Scientific Reports, 2019, 9, 12649.	3.3	15
18	Fullerene C₇₆ as a novel electrocatalyst for VO²⁺/VO₂⁺ and chlorine evolution inhibitor in all-vanadium redox flow batteries. Chemical Communications, 2020, 56, 7569-7572.	4.1	15

#	Article	IF	Citations
19	Rb intercalation enhanced the supercapacitive performance of layer-structured MoS₂ as a 2D model material. Materials Advances, 2021, 2, 5052-5056.	5.4	14
20	Toward the Proper Selection of Carbon Electrode Materials for Energy Storage Applications: Experimental and Theoretical Insights. Energy & Fuels, 2021, 35, 13426-13437.	5.1	12
21	Boosting the cyclic stability and supercapacitive performance of graphene hydrogels via excessive nitrogen doping: Experimental and DFT insights. Sustainable Materials and Technologies, 2020, 25, e00206.	3.3	11
22	Education for the future. Science, 2018, 360, 1409-1412.	12.6	9
23	Photophysical performance of radio frequency sputtered Pt/n-PSi/ZnO NCs/Pt photovoltaic photodetectors. Optical Materials, 2018, 84, 830-842.	3.6	9
24	Experimental and density functional theory insights into the effect of withdrawing ligands on the fluorescence yield of Ru(II)â€based complexes. Applied Organometallic Chemistry, 2019, 33, e4677.	3.5	9
25	Position of the anchoring group determined the sensitization efficiency of metal-free D-Ï€-A dyes: Combined experimental and TDâ€“DFT insights. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 367, 128-136.	3.9	7
26	Full speed ahead to the City on the Hill. Science, 2016, 352, 886-889.	12.6	3
27	Cylindrical C ₉₆ Fullertubes: A Highly Active Metalâ€Free O ₂ â€Reduction Electrocatalyst. Angewandte Chemie, 0, , .	2.0	3
28	Deciphering the hype effect of Ni-foam substrate in electrochemical supercapacitors: Is there a way out?. Materials Today Communications, 2022, 32, 103972.	1.9	3
29	Laser annealing enhanced the photophysical performance of Pt/n-PSi/ZnO/Pt-based photodetectors. Solid-State Electronics, 2020, 171, 107821.	1.4	2
30	Prejudgment call. Science, 2017, 355, 22-23.	12.6	1
31	Defining events: 2020 in hindsight. Science, 2021, 371, 22-24.	12.6	0
32	Molecular Engineering of D-Ï€-A Based on 1,3-Dimethoxybenzene Ï€ Spacer for Dye-Sensitized Solar Cells. Egyptian Journal of Chemistry, 2018, .	0.2	0